

**WHAT IS CLAIMED IS:**

1. A method of controlling a dynamic pressure transient during a perforation operation comprising the steps of:  
  
determining the characteristics of a formation to be perforated;  
  
selecting a dynamic pressure transient profile based on the formation characteristics that facilitates creating fluid communication between a wellbore and the formation;  
  
selecting a perforating tool having characteristics to achieve the desired fluid communication between the wellbore and the formation;  
  
selecting a wellbore fluid based on the formation characteristics and selected perforating tool characteristics to substantially acquire the selected dynamic pressure transient profile selected; and  
  
performing a perforation operation based on the selected perforating tool and wellbore fluid.
2. The method of claim 1, wherein the selected wellbore fluid is a substantially incompressible fluid.
3. The method of claim 1, wherein the selected wellbore fluid is a compressible fluid.
4. The method of claim 1, wherein the selected wellbore fluid is a foam.
5. The method of claim 1, wherein the selected wellbore fluid is water.

6. The method of claim 1, wherein the selected wellbore fluid is a brine.
7. The method of claim 1, wherein the selected wellbore fluid further includes a reactive agent.
8. The method of claim 1, wherein the selected wellbore fluid further includes a viscosifier.
9. The method of claim 1, wherein the selected wellbore fluid includes a surfactant.
10. The method of claim 1, wherein the selected dynamic pressure transient is underbalanced.
11. The method of claim 1, wherein the selected dynamic pressure transient is overbalanced.
12. The method of claim 2, wherein the selected wellbore fluid further includes a reactive agent.
13. The method of claim 2, wherein the selected wellbore fluid further includes a viscosifier.
14. The method of claim 2, wherein the selected wellbore fluid includes a surfactant.
15. The method of claim 3, wherein the selected wellbore fluid further includes a reactive agent.

16. The method of claim 3, wherein the selected wellbore fluid further includes a viscosifier.
17. The method of claim 3, wherein the selected wellbore fluid includes a surfactant.
18. A method of controlling a dynamic pressure transient during a perforation operation comprising the steps of:
  - filling at least a portion of the wellbore with a wellbore fluid selected for controlling a dynamic pressure transient upon and after detonation of the perforating tool; and
  - perforating a wellbore by detonating a perforating tool.
19. The method of claim 18, wherein the selected wellbore fluid is a substantially incompressible fluid.
20. The method of claim 18, wherein the selected wellbore fluid is a compressible fluid.